LIQUID NAILS PROFESSIONAL FRP PANEL ADHESIVE



# MATERIAL SAFETY DATA SHEET

#### HAZARDS IDENTIFICATION

(ANSI Section 3)

Primary route(s) of exposure: Inhalation, skin contact, eye contact, ingestion.

Effects of overexposure:

Inhalation: Irritation of respiratory tract. Prolonged inhalation may lead to loss of appetite, mucous membrane irritation, fatigue, drowsiness, dizziness and/or lightheadedness, headache, uncoordination, nausea, vomiting abdominal nain, sore throat, coughing, difficulty with speech. central nervous system depression, intoxication, anesthetic effect or narcosis, difficulty of breathing, blood abnormalities, liver damage, kidney damage, pneumoconiosis, loss of consciousness.

Skin contact: Irritation of skin. Prolonged or repeated contact can cause dermatitis, defatting.

Eve contact: Irritation of eyes. Prolonged or repeated contact can cause conjunctivitis, blurred vision, tearing of eyes, redness of eyes, severe eye irritation, corneal injury.

**Ingestion:** Ingestion may cause lung inflammation and damage due to aspiration of material into lungs, mucous membrane irritation, dizziness and/or lightheadedness, headache. uncoordination, nausea, vomiting, diarrhea, gastro-intestinal disturbances, abdominal pain, coughing, central nervous system depression, intoxication, difficulty of breathing, pulmonary edema, cvanosis.

Medical conditions aggravated by exposure: Eye, skin, respiratory disorders, lung disorders, kidney disorders, respiratory disorders.

#### FIRST-AID MEASURES

(ANSI Section 4)

Inhalation: Remove to fresh air. Restore and support continued breathing. Get emergency medical attention. Have trained person give oxygen if necessary. Get medical help for any breathing difficulty. Remove to fresh air if inhalation causes eve watering, headaches, dizziness, or other discomfort. Get medical attention if discomfort or irritation persists.

Skin contact: Wash thoroughly with soap and water. If any product remains, gently rub petroleum jelly, vegetable or mineral/baby oil onto skin. Repeated applications may be needed. Remove contaminated clothing. Wash contaminated clothing before re-use. If irritation occurs, consult a

Eve contact: Flush immediately with large amounts of water, especially under lids for at least 15 minutes. If irritation or other effects persist, obtain medical treatment.

Ingestion: If swallowed, obtain medical treatment immediately.

#### FIRE-FIGHTING MEASURES

(ANSI Section 5)

Fire extinguishing media: Dry chemical or foam water fog. Carbon dioxide. Closed containers may explode when exposed to extreme heat or fire. Vapors may ignite explosively at ambient temperatures. Vapors are heavier than air and may travel long distances to a source of ignition and flash back. Closed containers may burst if exposed to extreme heat or fire. May decompose under fire conditions emitting irritant and/or toxic gases.

Fire fighting procedures: Water may be used to cool and protect exposed containers. Firefighters should use full protective clothing, eye protection, and self-contained breathing apparatus.

Hazardous decomposition or combustion products: Carbon monoxide, carbon dioxide, acrid fumes, formaldehyde, oxides of sulfur, aldehydes, toxic gases, smoke and soot. Oxides of calcium, smoke.

#### ACCIDENTAL RELEASE MEASURES

(ANSI Section 6)

Steps to be taken in case material is released or spilled: Comply with all applicable health and environmental regulations. Eliminate all sources of ignition. Ventilate area with explosion-proof equipment. Use non-sparking tools. Evacuate all unnecessary personnel. Place collected material in proper container. Complete personal protective equipment must be used during cleanup. Large spills - shut off leak if safe to do so. Dike and contain spill. Pump to storage or salvage vessels. Use absorbent to pick up excess residue. Keep salvageable material and rinse water out of sewers and water courses. Small spills - use absorbent to pick up residue and dispose of properly.

#### HANDLING AND STORAGE

(ANSI Section 7)

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**Handling and storage**: Store below 80f. Keep away from heat, sparks and open flame.

Other precautions: Use only with adequate ventilation. Do not take internally. Keep out of reach of children. Avoid contact with skin and eyes, and breathing of vapors. Wash hands thoroughly after handling, especially before eating or smoking. Keep containers tightly closed and upright when not in use. Empty containers may contain hazardous residues. Ground equipment when transferring to prevent accumulation of static charge.

### EXPOSURE CONTROLS/PERSONAL PROTECTION (ANSI Section 8)

Respiratory protection: Control environmental concentrations below applicable exposure standards when using this material. When respiratory protection is determined to be necessary, use a NIOSH/MSHA (Canadian z94.4) Approved elastomeric sealing- surface facepiece respirator outfitted with organic vapor cartridges and paint spray (dust/mist) prefilters. Determine the proper level of protection by conducting appropriate air monitoring. Consult 29CFR1910.134 For selection of respirators (Canadian z94.4).

Ventilation: Provide dilution ventilation or local exhaust to prevent build-up of vapors. Use explosionproof equipment. Use non-sparking equipment.

**Personal protective equipment:** Eve wash, safety shower, safety glasses or goggles, Impervious gloves, impervious clothing, face shield.

# STABILITY AND REACTIVITY

(ANSI Section 10)

**Under normal conditions:** Stable see section 5 fire fighting measures

Materials to avoid: Oxidizers, acids, bases, amines, peroxides, nitric acid, combustible materials. Styrene monomer

Conditions to avoid: Elevated temperatures, contact with oxidizing agent, sparks, open flame, ignition

Hazardous polymerization: Will not occur

#### TOXICOLOGICAL INFORMATION

(ANSI Section 11)

Supplemental health information: Contains a chemical that may be absorbed through skin. Notice reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Other effects of overexposure may include toxicity to central nervous system.

Carcinogenicity: Contains crystalline silica which is considered a hazard by inhalation. IARC has classified crystalline silica as carcinogenic to humans (group 1). Crystalline silica is also a known cause of silicosis, a noncancerous lung disease. The national toxicology program (NTP) has classified crystalline silica as a known human carcinogen.

Reproductive effects: No reproductive effects are anticipated

Mutagenicity: No mutagenic effects are anticipated Teratogenicity: No teratogenic effects are anticipated

#### ECOLOGICAL INFORMATION

(ANSI Section 12)

No ecological testing has been done by ICI paints on this product as a whole.

The information contained herein is based on data available at the time of preparation of this data sheet which ICI Paints believes to be reliable. However, no warranty is expressed or implied regarding the accuracy of this data. ICI Paints shall not be responsible for the use of this information, or of any product, method or apparatus mentioned and you must make your own determination of its suitability and completeness for your own use, for the protection of the environment, and the health and safety of your employees and the users of this material. Complies with OSHA hazard communication standard 29CFR1910.1200.

(ANSI Section 13)

### REGULATORY INFORMATION

(ANSI Section 15)

Waste disposal: Dispose in accordance with all applicable regulations.

As of the date of this MSDS, all of the components in this product are listed (or are otherwise exempt from listing) on the TSCA inventory. This product has been classified in accordance with the hazard criteria of the CPR (controlled products regulations) and the MSDS contains all the information required by the CPR.

# **Physical Data**

#### (ANSI Sections 1, 9, and 14)

Product Code	Description	Wt. / Gal.	VOC gr. / ltr.	% Volatile by Volume	Flash Point	Boiling Range	HMIS	DDT, proper shipping name
AHE30001T N0	frp-300, liquid nails professional frp panel adhesive	12.10	199.89	31.65	24 f	133-185	*240	adhesives,3,UN1133,PGIII
AHE30002T N0	frp-300, liquid nails professional frp panel adhesive	12.10	199.89	31.65	24 f	133-185	*240	adhesives,3,UN1133,PGIII

# Ingredients

# Product Codes with % by Weight (ANSI Section 2)

Chemical Name	Common Name	CAS. No.	AHE30001T N0	AHE30002T N0
limestone	limestone	1317-65-3	40-50	40-50
kaolin	clay	1332-58-7	10-20	10-20
quartz	quartz	14808-60-7	.1-1.0	.1-1.0
magnesium carbonate	magnesium carbonate	546-93-0	1-5	1-5
distillates, petroleum, hydrotreated heavy naphthenic	petroleum hydrocarbon	64742-52-5	1-5	1-5
solvent naphtha (petroleum), light aliphatic	light aliphatic solvent naphtha (petroleum)	64742-89-8	10-20	10-20
2-propanone	acetone	67-64-1	1-5	1-5
distillates (petroleum), steam-cracked, polymers with light steam-cracked petroleum naphtha	aromatic hydrocarbon resin	68410-16-2	10-20	10-20
resin acids and rosin acids, esters with glycerol	rosin glycerol ester	8050-31-5	1-5	1-5
benzene, ethenyl-, polymer with 1,3-butadiene	styrene-butadiene polymer	9003-55-8	1-5	1-5

# **Chemical Hazard Data**

### (ANSI Sections 2, 8, 11, and 15)

		ACGIH-TLV			DSHA-PEL				S.R. e	62	S3	CC_					
Common Name	CAS. No.	8-Hour TWA	STEL	С	S	8-Hour TWA	STEL	С	s	Std.	Std.	33	-	н	1 M	1 I	_ Q
limestone	1317-65-3	10 mg/m3	not est.	not est.	not est.	5 mg/m3	not est.	not est.	not est.	not est.	n	n	n	n	n r	a r	ı n
clay	1332-58-7	2 mg/m3	not est.	not est.	not est.	5 mg/m3	not est.	not est.	not est.	not est.	n	n	n	n	n r	a r	ı n
quartz	14808-60-7	.05 mg/m3	not est.	not est.	not est.	0.1 mg/m3	not est.	not est.	not est.	not est.	n	n	n	n	n y	у у	/ n
magnesium carbonate	546-93-0	10 mg/m3	not est.	not est.	not est.	5 mg/m3	not est.	not est.	not est.	not est.	n	n	n	n	n r	a r	ı n
petroleum hydrocarbon	64742-52-5	5 mg/m3	10 mg/m3	not est.	not est.	5 mg/m3	not est.	not est.	not est.	not est.	n	n	n	n	n r	a y	n
light aliphatic solvent naphtha (petroleum)	64742-89-8	not est.	not est.	not est.	not est.	300 ppm	not est.	not est.	not est.	not est.	n	n	n	n	n r	a r	n
acetone	67-64-1	500 ppm	750 ppm	not est.	not est.	1000 ppm	not est.	not est.	not est.	not est.	n	n	У	n	n r	a r	ı n
aromatic hydrocarbon resin	68410-16-2	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	n	n	n	n	n r	a r	n
rosin glycerol ester	8050-31-5	5 mg/m3	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	n	n	n	n	n r	a r	ı n
styrene-butadiene polymer	9003-55-8	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	n	n	n	n	n r	a r	ı n

#### Footnotes:

C=Ceiling - Concentration that should not be exceeded, even instantaneously.

S=Skin - Additional exposure, over and above airborn exposure, may result from skin absorption.

n/a=not applicable not est=not established CC=CERCLA Chemical ppm=parts per million mg/m3=milligrams per cubic meter Sup Conf=Supplier Confidential S2=Sara Section 302 EHS S3=Sara Section 313 Chemical S.R.Std.=Supplier Recommended Standard H=Hazardous Air Pollutant, M=Marine Pollutant P=Pollutant, S=Severe Pollutant Carcinogenicity Listed By: N=NTP, |=IARC, O=OSHA, y=yes, n=no

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